

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claim 1 (currently amended): A hydrocarbon-reforming catalyst, which comprises:

a porous carrier body, which is formed from at least one oxide powder of selected from the group consisting of magnesia, alumina, zirconia, titania and calcia, ~~as a carrier;~~

a complex oxide, ~~which is formed on a surface of the porous carrier body by calcining said porous body, which is simultaneously impregnated with~~ reaction of at least one catalytic-activity constituent selected from the group consisting of Ni and Co ~~and with~~ at least one carrier-forming constituent selected from the group consisting of compounds of Mg, Al, Zr, Ti and Ca, ~~on a surface of said porous body during calcining of the porous carrier body simultaneously impregnated with the catalytic-activity constituent and the carrier-forming constituent;~~ and

catalytic-activity particles, ~~which are produced from said complex oxide by activation~~ an activating process and distributed on the surface of said porous body ~~with the dispersion that wherein~~ 80% or more of said catalytic-activity particles ~~is shared by fine particles of~~ are 3.5 nm or less in size.

Claim 2 (currently amended): The hydrocarbon-reforming catalyst defined by ~~Claim 1~~ Claim 1, wherein the catalytic-activity particles are one or more of the group consisting of metals and compounds of Ni and Co.

Claim 3 (withdrawn): A method of manufacturing a hydrocarbon-reforming catalyst, which comprises the steps of:

providing an impregnating solution, which contains at least one catalytic-activity constituent selected from the group consisting of salts and compounds of Ni and Co and at least one carrier-forming constituent selected from the group consisting of salts and compounds of Mg, Al, Zr, Ti and Ca;

soaking a porous preform, which is formed from at least one oxide powder of magnesia, alumina, zirconia, titania and calcia, in said impregnating solution, whereby said catalytic and carrier-forming constituents are simultaneously infiltrated into at least a surface layer of said porous preform;

calcining said porous preform impregnated with said catalytic and carrier-forming constituents at a temperature of 700°C or higher in an oxidizing atmosphere, whereby said catalytic-activity and carrier-forming constituents are converted to a complex compound(s); and

heating said calcined porous preform at a temperature of 500°C or higher in a reducing atmosphere, whereby fine catalytic-activity particles are produced from said complex oxide(s).

Claim 4 (withdrawn): The catalyst-manufacturing method defined by Claim 3, wherein the impregnating solution has a mole ratio of the carrier-forming constituent to the catalytic-activity constituent adjusted to a value within a range of 0.5-5.